**Homework 90 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Quiz 23 Review Period\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| 1. If the rectangular prims below has a volume of 756 in3. Find the surface area of the figure below. | 2. If the volume of cylinder of 768π ft3. Find the surface area of the figure below and leave it in terms of π |
| 3. If the volume of cylinder of 144π cm3. Find the surface area of the figure below and leave it in terms of π. | 4. If the rectangular prims below has a volume of 1200 m3. Find the surface area of the figure below. |
| 5. Michael is going to cover his hallway with carpet. The carpet will come in strips that measure 16 inches by 18 inches. Michael plans to staple the strips of carpet down so there is no space in between them. If Michael’s hallway is 10 feet by 6 feet, what is the minimum number of strips that he will need to fully cover his hallway? | 6. A property owner wants to build a floor in the backyard that will be 6 feet by 10 feet. He has bricks that are 4 inches wide, 2 inches tall, and 8 inches long. How many bricks will he need to lay in order to build this floor? |
| 7. Find the surface area and volume of the rectangular prism below.    Surface Area:  Volume: | 8. Find the surface area and volume of the cylinder below and leave it in terms of .    Surface Area:  Volume: |
| 9. A cube has a volume of 343 in3.  a. What is the area of one face of the cube?  b. What is the full surface area of the cube? | 10. The surface area of one face of a cube is 81 cm2. Find the volume of the cube. |
| 11. A cube has a volume of 1728 cm3.  a. What is the area of one face of the cube?  b. What is the full surface area of the cube? | 12. The surface area of one face of a cube is 121 m2. Find the volume of the cube. |